

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): Process for the conversion of solar radiation into electric power and heat with one or several colour-selective interference filter reflectors that will split up solar radiation into different wavelength ranges and concentrate it on several photovoltaic cells that are made of semi-conductors and that have been optimised for different light colours, ~~this process being characterized by the fact that~~ wherein the light will be separated into at least two spectral wavelength ranges with the help of movable interference reflector films (2), with every film reflecting one wavelength range and transmitting another part.

Claim 2 (Currently Amended): Process in accordance with claim 1, ~~wherein and characterized by the fact that~~ the direct solar radiation will be concentrated refractively or reflectively before being split up into two or several wavelength ranges and that one or several movable interference reflector films (2) are

located as focal points at one or two levels before the area with the highest light concentration so that there will always be one focal point for the light fraction which is reflected by the interference reflector film (2) and also one for the light fraction which is transmitted by the interference reflector film (2), while the geometric position of these focal points does not change at all or only insignificantly by the one or two-dimensional movement of the interference reflector films(2).

Claim 3 (Currently Amended): Process in accordance with ~~claims 1 and 2~~ claim 1, wherein ~~and characterized by the fact that~~ the interference reflector film (2) cannot only be moved by reeling it off spindle (3) and onto spindle (4), but also by shifting the spindles (3 and 4) axially in relation to the zone with the highest light concentration.

Claim 4 (Currently Amended): Process in accordance with ~~claims 1 and 3~~ claim 1, wherein ~~and characterized by the fact that~~ the interference reflector film (2) is either continuously or discontinuously re-reeled.

Claim 5 (Currently Amended): Appliance of a concentrator solar collector with colour-selective reflectors, wherein ~~that is characterized by the fact that~~ lenses, preferably Fresnel lenses (1), are installed in a given frame (6) of the solar collector and directed towards the sun light, with a photocell being in the focal point of the lens, and that a movable interference reflector film (2) has been installed between the lens and the photocell.

Claim 6 (Currently Amended): Appliance in accordance with claim 5, wherein ~~and characterized by the fact that~~ the colour-selective interference reflector film (2) is made of a flexible foil, with a section of which being slowly be moved from spindle (3) to spindle (4) through the concentrated solar radiation.

Claim 7 (Currently Amended): Appliance in accordance with claim 5, wherein ~~and characterized by the fact that~~ photocells made from such semi-conductor materials with a band gap geared to the relevant wavelength range are located in the area of one or several of these focal points.

Claim 8 (Currently Amended): Appliance in accordance with claim 5, wherein ~~and characterized by the fact that~~ always one end of an optical wave guides (9) or transfer piece to such an optical wave guide is located in the area of one or several of these focal points.

Claim 9 (Currently Amended): Appliance in accordance with claim 7, wherein ~~and characterized by the fact that~~ the photocells are mounted on heat sinks (7) through which a liquid will be channelled.

Claim 10 (Currently Amended): Appliance in accordance with claim 7, wherein ~~and characterized by the fact that~~ the photocells are mounted on heat sinks (7) through which gas with an operating pressure of > 1 bar will flow.

Claim 11 (Currently Amended): Appliance in accordance with claim 9 ~~or 10~~, wherein ~~and characterized by the fact that~~ a thin-layered system of semi-conductors with a band gap of less than 0.7 eV is located between the photocells and the heat sinks (7).